

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in this application:

1. A detector comprising:
at least a first nanostructured surface having a plurality of nanostructures disposed thereon;
at least a first droplet of liquid;
at least a first reagent pixel; and
means for moving said at least a first droplet of liquid across said at least a first nanostructured surface in a way such that it contacts said at least a first reagent pixel.
2. The detector of claim 1 wherein said means for moving comprises said plurality of nanostructures, wherein the density of the nanostructures in said plurality of nanostructures is varied in a way such that said at least a first droplet of liquid moves toward the area on said at least a first nanostructured surface having the highest density of said nanostructures.
3. The detector of claim 1 wherein said means for moving comprises a plurality of electrodes disposed on said at least a first nanostructured surface in a way such that, upon sequentially applying a voltage to at least one of the electrodes in said plurality of electrodes, a droplet moves in a desired direction.
4. The detector of claim 1 wherein said at least a first droplet is a droplet of reagent.
5. The detector of claim 1 wherein said at least a first droplet is adapted to absorb particles disposed on the tips of said plurality of nanostructures, said nanostructures disposed on said at least a first nanostructured surface.
6. The detector of claim 5 wherein said at least a first droplet is further adapted to transport said particles to a desired destination such as a desired reagent pixel in an array of pixels on said at least a first nanostructured surface.

Cancel Claims 7-17.